Amendments to the Claims

1. (Currently amended) For use with a search engine that processes user

queries, a system that locates documents containing words corresponding to a

user query comprising[[;]]:

an infrequent word identifier that identifies infrequent words that occur in

less than a threshold number of documents:

a frequent word index that maps the location of documents that contain

words that occur in more than the threshold number of documents:

an infrequent word index, maintained separately from the frequent word

index, that maps the location of documents that contain the infrequent words;

<u>and</u>

an index scanning component that, in response to a query containing an

infrequent word, scans the infrequent word index to find the location of

documents containing the infrequent word.

2. (Original) The system of claim 1 wherein the frequent word index is stored

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by document.

3. (Original) The system of claim 1 wherein the frequent word index is

partitioned by document.

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4. (Original) The system of claim 3 wherein the frequent word index is

distributed across multiple computing systems.

5. (Original) The system of claim 1 wherein the infrequent word index is

stored by document.

6. (Original) The system of claim 1 wherein the infrequent word index is

partitioned by document.

7. (Currently amended) The system of claim 6 wherein the infrequent word

index is distributed across multiple computing computer systems.

8. (Original) The system of claim 1 wherein the infrequent word index is

stored by word.

9. (Original) The system of claim 1 wherein the infrequent word index is

partitioned by word.

10. (Currently Amended) The system of claim 9 wherein the infrequent word

index is stored on a single computing computer system.

11. (Original) The system of claim 10 wherein the index scanning component,

in response to a user query containing an infrequent word, retrieves document

locations for documents having the infrequent word from the infrequent word

index and transmits the retrieved document locations to computer systems

containing frequent word indexes for the retrieved documents.

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12. (Currently Amended) The system of claim 1 including further comprising

an index cache associated with the infrequent word index that stores document

locations for recently queried infrequent words.

13. (Currently Amended) For use with a search engine that processes user

queries, a method that searches a set of documents for documents containing

terms found in a user query comprising:

scanning the set of documents and gathering infrequent words that occur

in a number of times documents of the set of documents that is less than a

threshold amount:

constructing an infrequent word index that maps the infrequent words to

locations of documents that contain the infrequent words;

constructing a frequent word index, separately maintained from the

infrequent word index, that maps frequent words that occur in a number of times

documents of the set of documents that is greater than the threshold amount to

locations of documents that contain the frequent words; and

examining the terms in the user query to identify any terms are infrequent

words: and

searching the infrequent word index for the terms that are identified as

infrequent words.

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14. (Currently Amended) The method of claim 13 <u>further</u> comprising storing

the infrequent word index in a dedicated computer system.

15. (Currently Amended) The method of claim 13 further comprising storing

the infrequent word index in dedicated partitions on computer systems that also

store the frequent word index.

16. (Currently Amended) The method of claim 13 further comprising storing

the infrequent word index by word.

17. (Currently Amended) The method of claim 13 further comprising storing

the infrequent word index by document.

18. (Currently Amended) A computer readable storage medium comprising

computer-executable instructions $\underline{\text{that, when implemented,}}$ for performing the

method of claim 13.

19. (Currently Amended) For use with a search engine that processes user

queries, a computer readable medium comprising computer-executable

instructions for locating documents containing words corresponding to a user

query by that, when implemented, perform a method comprising:

identifying infrequent words that occur in less than a threshold number of

documents;

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mapping, in a frequent word index, the location of documents that contain

frequent words that occur in more than the threshold number of documents in a

frequent word index:

maintaining, separately from the frequent word index, an infrequent word

index that maps the location of documents that contain the infrequent words; and

in response to a query containing an infrequent word, scanning the

infrequent word index to find the location of documents containing the infrequent

word.

20. (Original) The computer readable medium of claim 19 wherein the

infrequent word index is stored by document.

21. (Original) The computer readable medium of claim 19 wherein the

infrequent word index is partitioned by document.

22. (Currently Amended) The computer readable medium of claim 19 wherein

the infrequent word index is distributed across multiple computing computer

systems.

23. (Currently Amended) The computer readable medium of claim 19 system

of claim 1 wherein the infrequent word index is stored by word.

24. (Original) The computer readable medium of claim 19 wherein the

infrequent word index is partitioned by word.

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25. (Currently Amended) The computer readable medium of claim 19 wherein

the infrequent word index is stored on a single computing computer system.

26. (Currently Amended) The computer readable medium of claim 19

including further comprising creating an index cache associated with the

infrequent word index that stores document locations for recently queried

infrequent words.

27. (Currently Amended) For use with a search engine that processes user

queries, an apparatus for searching set of documents for documents containing

terms found in a user query comprising:

means for scanning the set of documents and gathering infrequent words

that occur in a number of times documents that is less than a threshold amount;

means for constructing an infrequent word index that maps the infrequent

words to locations of documents that contain the infrequent words;

means for constructing a frequent word index, separately maintained from

the infrequent word index, that maps frequent words that occur in a number of

times documents that is greater than the threshold amount to locations of

documents that contain the frequent words; and

means for examining the terms in the user query to identify-any terms are

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infrequent words; and

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means for searching the infrequent word index for the terms that are identified-as infrequent words.

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